

INCH-POUND

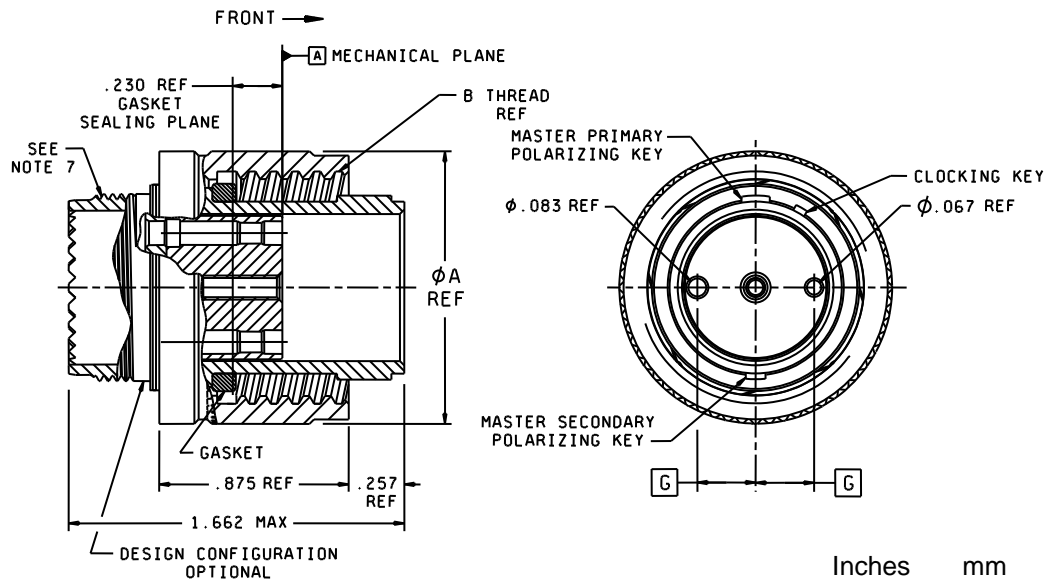
MIL-PRF-64266/2B
w/ Amendment 1
2 December 2014
SUPERSEDING
MIL-PRF-64266/2B
3 February 2014

PERFORMANCE SPECIFICATION SHEET

CONNECTOR, PLUG STYLE, FIBER OPTIC, CIRCULAR, MULTIPLE REMOVABLE GENDERLESS TERMINI, SCREW THREADS, ENVIRONMENT RESISTING

This specification is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring fiber optic connectors described herein
shall consist of this specification sheet and MIL-PRF-64266.



| Inches | mm |
|--------|-------|
| .010 | .25 |
| .015 | .38 |
| .067 | 1.70 |
| .083 | 2.11 |
| .230 | 5.84 |
| .257 | 6.53 |
| .875 | 22.23 |
| 1.662 | 42.22 |

FIGURE 1. Plug connector.

AMSC N/A

FSC 6060

MIL-PRF-64266/2B
W/ Amendment 1

| Shell size | A dia max | B Thread REF | G |
|------------|------------------|---------------------------|-----------------|
| 11 | 1.028 (26.11) | .7500- .1P-.2L- DS | .140 (3.56) |
| 13 | 1.141 (28.98) | .8750- .1P-.2L- DS | .178 (4.52) |
| 15 | 1.263 (32.08) | 1.062- .1P-.2L- DS | .270 (6.86) |
| 23 | 1.705 (43.31) | 1.5000- .1P-.2L- DS | .400 (10.16) |

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Metric equivalents (mm) are in parentheses.
4. Dimensions apply to plated/finished part.
5. Mating key positions and dimensions are shown on figure A-3 of MIL-PRF-64266.
6. Connector plug interface dimensions shall be in accordance with MIL-PRF-64266, figure A-1.
7. Back end connector design for attachment of non-rotatable backshell. Connector backshell accessory interface shall be in accordance with MIL-PRF-64266, figure A-6.
8. Marking and color requirements for the yellow band shall be in accordance with 3.10.3.1 of MIL-PRF-64266.
9. Insert retention mechanism not shown.
10. For connector insert arrangements and interface dimensions, see appendix B, figures B-1 through B-6 of MIL-PRF-64266.

FIGURE 1. Plug connector - Continued.

MIL-PRF-64266/2B
W/ Amendment 1

REQUIREMENTS:

Dimensions and configurations: See figure 1 herein and MIL-PRF-64266 appendix A, figure A-1, and figure A-3.

Weight (without termini): See table I

TABLE I. Weight (without termini).

| Shell size | Weight, max. | |
|------------|--------------|---------|
| | ounces | grams |
| 11 | 2.0 | 56.7 |
| 13 | 2.5 | 70.875 |
| 15 | 3.0 | 85.05 |
| 23 | 4.3 | 121.905 |

Fiber optic cable:

Cable diameter: 0.315 ± 0.020 inch (8.00 ± 0.50 mm), 0.425 ± 0.043 inch (11.80 ± 1.10 mm), 0.563 ± 0.039 (14.3 ± 1.00 mm) or $.817 \pm .049$ inch (20.75 ± 1.25 mm).

Protective caps: Each connector shall be supplied with protective caps over the front and rear portions of the connector.

Insert arrangement: See appendix B of MIL-PRF-64266 for desired shell size. Insert shall be marked with the identification numbers of the insert cavity positions on both the front and rear faces.

Termini: Genderless. See MIL-PRF-29504/18. For dummy terminus, see MIL-PRF-29504/19. For keyed terminus, see MIL-PRF-29504/20.

Alignment Sleeve retainer (ASR): A MIL-PRF-64266/9 ASR shall not be installed in the plug as part of this PIN. The MIL-PRF-64266/9 ASR, when application requires installation into a plug connector, shall be obtained through a separate PIN (M64266/9).

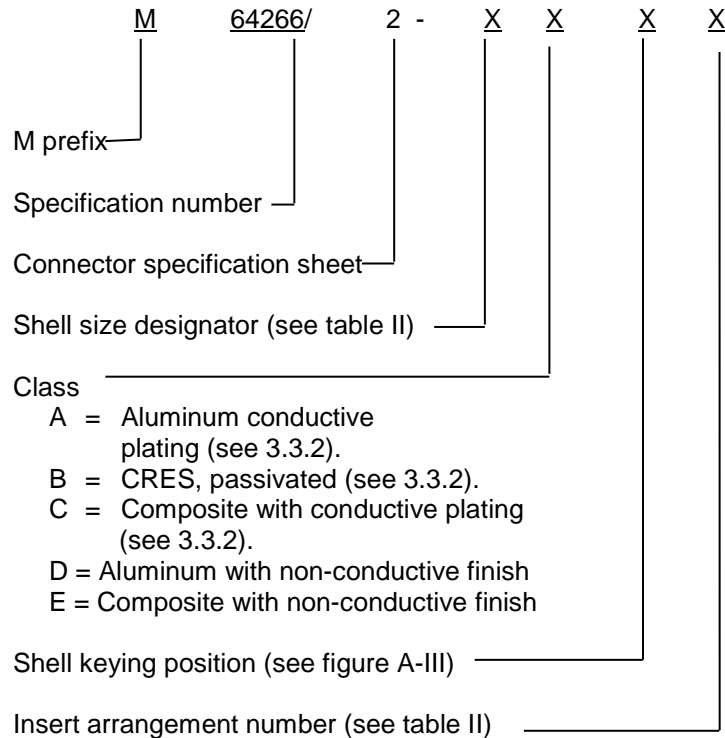
Cleaning procedures: Each shipment of connectors shall include recommended cleaning procedures. The following wording or equivalent is recommended: "To clean, use lint free wipe dampened with alcohol and blow dry with air".

Shell polarization: 1 through 12 keyway positions. See MIL-PRF-64266 appendix A, figure A-3.

MIL-PRF-64266/2B
W/ Amendment 1

Marking:

Part or Identifying Number (PIN): Mark on coupling ring of connector plug (see table II).



PIN Example: M64266/2-BB12

TABLE II. PIN designators.

| Shell size | Shell size designator | Number of insert cavities | Insert arrangement number ^{1/} |
|------------|-----------------------|---------------------------|---|
| 11 | B | 2 | 1 |
| | | 4 | 2 |
| 13 | C | 6 | 1 |
| | | 4 ^{2/} | 2 |
| 15 | D | 8 | 1 |
| | | 10 | 2 |
| 23 | H | 36 | 1 |
| | | 18 | 2 |

Notes:

^{1/} Insert arrangements are found in appendix B of MIL-PRF-64266.

^{2/} Shell size 13 connector with four cavity insert use is restricted to MIL-PRF-28876 retrofit applications.

MIL-PRF-64266/2B
W/ Amendment 1

Mating counterpart: Receptacle connectors specified in MIL-PRF-64266/1 and MIL-PRF-64266/3.

Installation and removal tools: As specified in NAVSEA drawing 8283460. A copy of this document can be obtained at web site: <https://fiberoptics.nswc.navy.mil>.

For qualified products listing, quality conformance, and periodic inspections, dummy termini shall be used in all unused cavities.

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Referenced documents. In addition to MIL-PRF-64266, this specification sheet references the following documents:

| | |
|------------------|------------------------|
| MIL-PRF-29504/18 | MIL-PRF-64266/3 |
| MIL-PRF-29504/19 | MIL-PRF-64266/9 |
| MIL-PRF-29504/20 | NAVSEA drawing 8283460 |
| MIL-PRF-64266/1 | MIL-PRF-28876 |

CONCLUDING MATERIAL

Custodians:
Army - CR
Navy - SH
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 6060-2014-060)

Review activities:
Army - MI
Navy - AS
Air Force - 13, 19, 93, 99
NASA - NA

NOTE: The activities listed above were interested in this document on the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.